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Real Time In Situ data management system for EuroGOOS: A ROOSes-MyOcean joint effort

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MyOcean is the implementation project of the GMES Marine Core Service, that develop the first concerted and integrated pan-European capacity for Ocean Monitoring and Forecasting. Within this project, the in-situ Thematic Assembly Centre (in-situ TAC) of MyOcean is a distributed service integrating data from different sources for operational oceanography needs. The MyOcean in-situ TAC is collecting and carrying out quality control in a homogeneous manner on data from outside MyOcean data providers, especially EuroGOOSparners, to fit the needs of internal and external users. It provides access to integrated datasets of core parameters for initialization, forcing, assimilation and validation of ocean numerical models. Since the primary objective of MyOcean is to forecast ocean state, the initial focus is on observations from automatic observatories at sea (e.g. floats, buoys, gliders, ferrybox, drifters, SOOP) which are transmitted in real-time to the shore. The second objective is to set up a system for re-analysis purposes that integrate data over the past 20 years. The global and regional portals set up by the INS-TAC are extended by the EuroGOOS ROOSES to integrate additionnal parameters important for downstream and national applications.